

STORAGE DISASTER RECOVERY USING A PREDICTED SUPERSET OF  
UNHARDEDENED PRIMARY DATA

**ABSTRACT**

A method for managing a data storage system includes  
5 maintaining a record on a secondary storage subsystem,  
which is predictive of locations to which data are to be  
written on a primary storage subsystem by a host  
processor. Upon receiving at the primary storage  
subsystem, from a host processor, the data to be written  
10 to a specified location, if the specified location is not  
included in the record, the primary storage subsystem  
sends to the secondary storage subsystem so as to cause  
the secondary storage subsystem to update the record.  
The primary storage subsystem signals the host processor  
15 that the data have been stored in the data storage system  
responsively to receiving the data and to receiving an  
acknowledgment from the secondary storage subsystem  
indicating that the record has been updated.